CLAIMS:

1. A method of processing digital signals to be transmitted in analog form, said method comprising:

converting a digital signal to produce an analog signal image at a radio frequency; and

using said analog signal image at said radio frequency for transmission.

2. The method of claim 1 comprising:

positioning said digital signal within a conversion bandwidth defined as one-half the rate of said converting.

3. The method of claim 1 comprising:

receiving a plurality of digital signals;

positioning said digital signals in non-overlapping portions of a conversion bandwidth defined as one-half the rate of said converting;

converting said digital signals to produce analog signal images at different transmission frequencies; and

using said analog signal images for transmission.

4. The method of claim 3 wherein said step of using includes:

providing an analog signal image onto a path;

amplifying said analog signal image on said path; and

transmitting said amplified analog signal image using at least one antenna.

5. The method of claim 4 wherein said steps of providing, amplifying and transmitting include:

providing a first analog signal image of a first frequency band on a first path and a second analog signal image of a second frequency band on a second path;

amplifying said first analog signal image on said first path and said second analog signal image on said second path; and

transmitting said first amplified analog signal image on a first antenna and said second amplified analog signal image on a second antenna.

6. The method of claim 4 further comprising:

filtering a plurality of analog signal images at different frequency bands to provide at least one analog signal image of a frequency band corresponding to each of a plurality of paths.

7. The method of claim 4 further comprising:

selectively producing on each of a plurality of paths at least one analog signal image of a frequency band corresponding to each of said plurality of paths.

8. The method of claim 1 further comprising:

adjusting a conversion rate for converting said digital signal to produce said analog signal image at said RF frequency.

9. The method of claim 1 further comprising:

adjusting a frequency for said digital signal to be converted into analog form to produce said analog signal image at said RF frequency.

10. A method of processing digital signals to be transmitted in analog form, said method comprising the steps of:

converting a digital signal to produce a projected analog signal image; and

using said projected analog signal image at said frequency to produce analog signals for transmission.

11. The method of claim 10 comprising:

positioning said digital signal within a conversion bandwidth defined as one-half the rate of said conversion frequency.

12. The method of claim 10 comprising:

receiving a plurality of digital signals;

positioning said digital signals in non-overlapping portions of a conversion bandwidth defined as one-half the rate of said conversion frequency;

converting said digital signals to produce said projected analog signal images at frequencies greater than said conversion bandwidth; and

using said projected analog signal images for transmission.

13. The method of claim 12 wherein said step of using includes:

providing a projected analog signal image onto a path;

amplifying said projected analog signal image on said path; and

transmitting said amplified analog signal image using at least one antenna.

14. The method of claim 13 wherein said steps of providing, amplifying and transmitting further include:

providing a first projected analog signal image of a first frequency band on a first path and a second projected analog signal image of a second frequency band on a second path;

amplifying said first projected analog signal image on said first path and said second projected analog signal image on said second path; and

transmitting said first amplified analog signal image on a first antenna and said second amplified analog signal image on a second antenna.

15. The method of claim 13 wherein said step of providing further includes:

filtering a plurality of said projected analog signal images at different frequency bands to provide at least one projected analog signal image of a frequency band corresponding to each of a plurality of paths.

16. The method of claim 13 wherein said steps of providing further includes:

selectively producing on each of a plurality of paths at least one projected analog signal image of a frequency band corresponding to each of said plurality of paths.

17. The method of claim 10 further comprising:

adjusting a conversion rate for converting said digital signal to produce said projected analog signal image at said frequency.

18. The method of claim 10 further comprising:

adjusting a digital frequency for said digital signal to be converted into analog form to produce said projected analog signal image at said frequency.

19 A transmitter comprising:

a digital to analog converter configured to receive a digital signal and convert said digital signal into analog form, thereby producing an analog signal image at a radio frequency; and

transmitter circuitry configured to use said analog signal image at said radio frequency for transmission.

20. The transmitter of claim 19 comprising:

signal processing circuitry configured to position said digital signal within a conversion bandwidth defined as one-half the rate of converting said digital signal into analog form.

21. The transmitter of claim 19 comprising:

signal processing circuitry configured to receive a plurality of digital signals and to position said digital signals in non-overlapping portions of a conversion bandwidth defined as one-half the rate of said converting;

said digital to analog converter configured to convert said digital signals to produce analog signal images at different transmission frequencies; and

said transmitter circuitry configured to use said analog signal images for transmission.

22. The transmitter of claim 19 wherein said transmitter circuitry comprising:

a path for carrying said analog signal image;

an amplifier on said path for amplifying said analog signal image on said path; and

at least one antenna for transmitting said amplified analog signal image.

23. The method of claim 21 wherein said transmitter circuitry comprises:

signal distribution circuitry configured to receive said analog signal images from said digital to analog converter and to provide a first analog signal image of a first frequency band on a first path and a second analog signal image of a second frequency band on a second path;

a first amplifier on said first path for amplifying said first analog signal image on said first path;

a second amplifier on said second path for amplifying said second analog signal image on said second path;

a first antenna connected to said first path for transmitting said first amplified analog signal image; and

a second antenna connected to said second path for transmitting said second amplified analog signal image.

24. The transmitter of claim 19, said transmitter configured to adjust a conversion rate for said digital to analog converter to produce said analog signal image at said radio frequency.

25. The transmitter of claim 19, said transmitter configured to adjust a digital frequency for said digital signal to be converted into analog form to produce said analog signal image at said radio frequency.

26. A transmitter comprising:

a digital to analog converter configured to receive a digital signal and convert said digital signal into analog form, thereby producing a projected analog signal image; and

transmitter circuitry configured to use said projected analog signal image to produce analog signals for transmission.

27. The transmitter of claim 26 comprising:

signal processing circuitry configured to position said digital signal within a conversion bandwidth defined as one-half the rate of said conversion frequency.

28. The transmitter of claim 26 comprising:

signal processing circuitry configured to receive a plurality of digital signals and to position said digital signals in non-overlapping portions of said conversion bandwidth;

said digital to analog converter configured to convert said digital signals to produce projected analog signal images at frequencies greater than said conversion bandwidth; and

said transmitter circuitry configured to use said projected analog signal images for transmission.

29. The transmitter of claim 26 wherein said transmitter circuitry includes:

a path for carrying said projected analog signal image;

an amplifier on said path for amplifying said projected analog signal image on said path; and

at least one antenna for transmitting said amplified analog signal image.

30. The transmitter of claim 27 wherein said transmitter circuitry comprises:

signal distribution circuitry configured to receive said projected analog signal images from said digital to analog converter and to provide a first projected analog signal image of a first frequency band on a first path and a second projected analog signal image of a second frequency band on a second path;

a first amplifier on said first path for amplifying said first projected analog signal image on said first path;

a second amplifier on said second path for amplifying said second projected analog signal image on said second path;

a first antenna connected to said first path for transmitting said first amplified analog signal image; and

a second antenna connected to said second path for transmitting said second amplified analog signal image.

31. The transmitter of claim 26, said transmitter configured to adjust a conversion rate for said digital to analog converter to produce said projected analog signal image at said frequency.

32. The transmitter of claim 26, said transmitter configured to adjust a digital frequency for said digital signal to be converted into analog form to produce said projected analog signal image at said frequency.